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02003967.3 22 February 2002 (22.02.2002) EP(71) Applicant (for all designated States except US): **ROCHE VITAMINS AG** [CH/CH]; 124 Grenzacherstrasse, CH-4070 Basel (CH).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **KATAOKA, Michihiko** [JP/JP]; 24-308, Okazaki-Irie-cho, Sakyo-ku, Kyoto-shi, Kyoto 606-8322 (JP). **SHIMIZU, Sakayu** [JP/JP]; 6-9 Yamashita-cho, Tokiwa, Ukyo-ku, Kyoto-shi, Kyoto-fu 616-8212 (JP).(74) Agent: **LEDERER & KELLER**; Prinzregebtstrasse 16, 80538 München (DE).

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(54) Title: ENONE REDUCTASE

(57) Abstract: An isolated enone reductase characterized by a molecular mass of 61300 +/- 5000 Da; NADPH and NADH as co-factor; a temperature optimum of 55-60 °C at pH 7.4 ; a pH optimum of 4.5-8.5 and substrate specificity on  $\alpha,\beta$ -unsaturated ketones; a process for producing it from a microorganism and a process for producing levodione from ketoisophorone using such reductase.

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